

Tarea #1 Soporte Técnico

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Departamento: Escuela de Informática

Curso: EIF202 - Soporte Técnico

Ciclo I

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1. Componentes de la computadora

En esta sección voy a evaluar lo mínimo que se necesita, intentando de que los componentes sea el menor presupuesto posible, el mayor presupuesto al día y lo que idealmente usaría yo.

1.1. Lista de componentes y presupuesto mínimo

Para esta lista usé PC PART PICKER (Pc Part Picker, 2022a). Para hacer la lista, tuve que verificar si algunos componentes eran necesarios, como la tarjeta gráfica () y la tarjeta de sonido ().

- Intel Core 2 Duo E7300 2.66 GHz Dual-Core OEM/Tray Processor \$11.95
- Zalman CNPS80F CPU Cooler \$11.66
- MSI G41M4-F Micro ATX LGA775 Motherboard \$79.98
- Patriot Signature 1GB (1 X 1 GB) DDR2-800 CL6 Memory \$6.82
- Toshiba 320 GB 2.5"5400RPM Internal Hard Drive \$13.45
- Vision Tek Radeon HD 5450 1 GB Video Card \$45.99
- BitFenix Nova Mesh SE ATX Mid Tower Case \$38.40
- Logisys 480 W ATX Power Supply \$16.98

- Nexus D125L-12BL 36.86 CFM 120 mm Fan \$4.99
Aqui estaría completa la computadora (sin poder sonar, ver, usar, accesar al internet y sin pasta térmica)
- Acer V206WQL bd 19.5"1440x900 60 Hz Monitor \$87.96
- Verbatim 99201 Wired Standard Keyboard \$8.94
- Verbatim 98618 Mini Travel Mouse Commuter Wired Optical Mouse \$4.99
- Total: \$332.11

Con esto se tiene para ver y usar y para minimizar costos se le instalaría Linux, aunque aun no se puede usar el internet por falta de adaptadores.

1.2. Lista de componentes y presupuesto máximo

Para esta lista usé PC PART PICKER (Pc Part Picker, 2022b).

- AMD Threadripper 3990X 2.9 GHz 64-Core Processor \$5689.00
- Corsair H100i RGB PLATINUM 75 CFM Liquid CPU Cooler \$379.99
- ARCTIC MX-5 Incl. Spatula 20g Thermal Past \$99.99
- Asus ROG ZENITH II EXTREME ALPHA EATX sTRX4 Motherboard \$1609.99
- Corsair Dominator Platinum 128 GB (8 x 16 GB) DDR4-3200 CL 16 Memory \$3879.02

- Team QX 15.3 TB 2.5" Solid State Drive \$3299.99
 - PNY Quadro GV100 32 GB Video Card \$10560.00
 - Phanteks Eclipse P4005 ATX Mid Tower Case \$1127.58
 - Corsair AX 1000 W 80+ Titanium Certified Fully Modular ATX Power Supply \$1199.00
 - Microsoft Windows 11 Pro OEM 64-bit \$159.99
 - EVGA NU 24-bit 192 kHz Sound Card \$735.00
 - StarTech ST1000SPEX42 PCIe x4 1 Gbit/s Network Adapter \$431.08
 - Intel 62205 ANHMWDTX1 PCIe x1 802.11a/b/g/n Wi-Fi Adapter \$149.94
 - Corsair High Performance 62.74 CFM 120 mm Fan \$295.50
 - Dell UP3216Q 31.5" 3840x2160 60 Hz Monitor \$4589.00
 - Logitech MX 5500 Revolution Wireless Standard Keyboard with Laser Mouse \$779.00
 - Logitech G500s Laser Gaming Mouse Wired Laser Mouse \$464.50
 - Logitech THX Z-5300e 280 W 5.1 Channel Speakers \$1799.99
 - Total: \$37249.56 (sin contar el shipping que calcula la página)
- Aunque la lista dice que el CPU no está con soporte en Windows 11 la página oficial de Microsoft dice lo contrario (windows-driver-content y col., 2021).

1.3. Lista de componentes y presupuesto ideal para mi

2. Imágenes de las listas de partes

La lista de menor valor:

https://pcpartpicker.com/list/mNq4e

Markup

















History

Save As

Start New


Compatibility: See notes below.


Estimated Wattage: 175W


Component	Selection	Base	Promo	Shipping	Tax	Price	Where
CPU	 Intel Core 2 Duo E7300 2.66 GHz Dual-Core OEM/Tray Processor	\$11.95	—	—	—	\$11.95	amazon.com Buy ×
CPU Cooler	 Zalman CNPS80F CPU Cooler	\$11.66	—		—	\$11.66	amazon.com Buy ×
Motherboard	 MSI G41M4-F Micro ATX LGA775 Motherboard	\$79.98	—	—	—	\$79.98	amazon.com Buy ×
Memory	 Patriot Signature 1 GB (1 x 1 GB) DDR2-800 CL6 Memory	\$6.82	—	—	—	\$6.82	amazon.com Buy ×
	+ Add Additional Memory						
Storage	 Toshiba 320 GB 2.5" 5400RPM Internal Hard Drive	\$13.45	—		—	\$13.45	amazon.com Buy ×
	+ Add Additional Storage						
Video Card	 VisionTek Radeon HD 5450 1 GB Video Card	\$45.99	—	—	—	\$45.99	newegg.com Buy ×
Case	 BitFenix Nova Mesh SE ATX Mid Tower Case	\$38.40	—	—	—	\$38.40	amazon.com Buy ×
Power Supply	 Logixys 480 W ATX Power Supply	\$16.98	—	—	—	\$16.98	amazon.com Buy ×
Operating System	+ Choose An Operating System						
Case Fan	 Nexus D125L-12BL 36.86 CFM 120 mm Fan	\$4.99	—	—	—	\$4.99	amazon.com Buy ×
	+ Add Another Case Fan						
Monitor	 Acer V206WQL b'd 19.5" 1440x900 60 Hz Monitor	\$87.96	—	FREE	—	\$87.96	Walmart Buy ×
	+ Add Another Monitor						
Keyboard	 Verbatim 99201 Wired Standard Keyboard	\$8.94	—		—	\$8.94	amazon.com Buy ×
	+ Add Another Keyboard						
Mouse	 Verbatim 98618 Mini Travel Mouse Commuter Wired Optical Mouse	\$4.99	—		—	\$4.99	amazon.com Buy ×
	+ Add Another Mouse						
Expansion Cards / Networking	Sound Cards, Wired Network Adapters, Wireless Network Adapters						
Peripherals	Headphones, Keyboards, Mice, Speakers, Webcams						
Accessories / Other	Case Accessories, Case Fans, Fan Controllers, Thermal Compound, External Storage, Optical Drives, UPS Systems						
Total:						\$332.11	Buy from Amazon

* PCPartPicker may receive compensation for purchases made at participating retailers linked on this site. This compensation does not affect what products or prices are displayed, or the order of prices listed. Learn more [here](#).

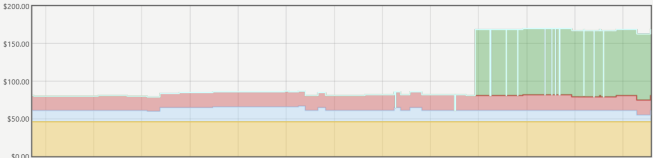
Compatibility Notes

 **Note:** BitFenix Nova Mesh SE ATX Mid Tower Case has a front panel USB 3.2 Gen 1 Type A port, but the MSI G41M4-F Micro ATX LGA775 Motherboard does not have any USB 3.2 Gen 1 headers. The case USB 3.2 Gen 1 Type A port will not be usable.

 **Note:** Unable to verify the BitFenix Nova Mesh SE ATX Mid Tower Case has sufficient space to fit the VisionTek Radeon HD 5450 1 GB Video Card.

 **Note:** Some physical dimension restrictions cannot (yet) be automatically checked, such as cpu cooler / RAM clearance with modules using tall heat spreaders. (Flag issues/incompatibilities as incorrect.)

Part List Price History



La lista de mayor valor:

https://pcpartpicker.com/list/L2Wvwt

Markup

History

Save As

+ Start New

Compatibility: Warning! These parts have potential issues or incompatibilities. See details below.

Estimated Wattage: 800W

Component	Selection	Base	Price	Shipping	Tax	Price	Where
CPU	AMD Threadripper 3990X 2.8 GHz 64-Core Processor	\$1880.00	—	—	—	\$1880.00	Amazon.com Buy
CPU Cooler	Corsair H100i RGB PLATINUM 75 CFM Liquid CPU Cooler	\$179.99	—	—	—	\$179.99	Amazon.com Buy
Thermal Compound	ARCTIC MX-5 Incl. Spatula 20 g Thermal Paste	\$99.99	—	Prime	—	\$99.99	Amazon.com Buy
+ Add Additional Thermal Compound							
Motherboard	Asus ROG ZENITH II EXTREME ALPHA EATX ATX EATX Motherboard	\$1600.99	—	\$20.00	—	\$1620.99	Amazon.com Buy
Memory	Corsair Dominator Platinum 128 GB (8 x 16 GB) DDR4-3200 CL16 Memory	\$3979.02	—	—	—	\$3979.02	Amazon.com Buy
+ Add Additional Memory							
Storage	Team QX 15.3 TB 2.5" Solid State Drive	\$1200.99	—	Prime	—	\$1200.99	Amazon.com Buy
+ Add Additional Storage							
Video Card	NVIDIA Quadro GV100 32 GB Video Card	\$10500.00	—	FREE	—	\$10500.00	BH Buy
+ Add Another Video Card For 2-Way SLI							
Case	Phanteks Eclipse P400S ATX Mid Tower Case	\$1127.58	—	—	—	\$1127.58	Amazon.com Buy
Power Supply	Corsair AX 1000 W 80+ Titanium Certified Fully Modular ATX Power Supply	\$1190.00	—	—	—	\$1190.00	Amazon.com Buy
Operating System	Microsoft Windows 11 Pro OEM 64-bit	\$159.99	—	FREE	—	\$159.99	Microsoft Buy
Sound Card	EVGA NU 24-bit 192 kHz Sound Card	\$735.00	—	Prime	—	\$735.00	Amazon.com Buy
+ Add Another Sound Card							
Wired Network Adapter	StarTech ST1000SPEX42 PCIe x4 1 Gb/s Network Adapter	\$431.00	—	—	—	\$431.00	Amazon.com Buy
+ Add Another Wired Network Adapter							
Wireless Network Adapter	Intel 6220SAHMMWDTX1 PCIe x1 802.11a/b/g/n Wi-Fi Adapter	\$149.04	—	—	—	\$149.04	Amazon.com Buy
+ Add Another Wireless Network Adapter							
Case Fan	Corsair SP120 High Performance 62.74 CFM 120 mm Fan	\$296.50	—	Prime	—	\$296.50	Amazon.com Buy
+ Add Another Case Fan							
Monitor	Dell UP3216Q 31.5" 3840x2160 60 Hz Monitor	\$4180.00	—	\$23.17	—	\$4612.17	Amazon.com Buy
+ Add Another Monitor							
Keyboard	Logitech MX 5500 Revolution Wireless Standard Keyboard With Laser Mouse	\$720.00	—	\$0.87	—	\$720.87	Amazon.com Buy
+ Add Another Keyboard							
Mouse	Logitech G500s Laser Gaming Mouse Wired Laser Mouse	\$464.50	—	\$2.47	—	\$466.97	Amazon.com Buy
+ Add Another Mouse							
Speakers	Logitech THX Z-3300s 280 W 5.1 Channel Speakers	\$1700.99	—	\$28.29	—	\$1828.28	Amazon.com Buy
+ Add Computer Speakers							
Sound Cards, Wired Network Adapters, Wireless Network Adapters							
Peripherals: Headphones, Keyboards, Mice, Speakers, Webcams							
Accessories / Other: Case Accessories, Case Fans, Fan Controllers, Thermal Compound, External Storage, Optical Drives, UPS Systems							
						Base Total:	\$37249.56
						Shipping:	\$65.80
						Total:	\$37335.36
Buy from Amazon							

* PCPartPicker may receive compensation for purchases made at participating retailers linked on this site. This compensation does not affect what products or prices are displayed, or the order of prices listed. Learn more [here](#).

Potential Issues / Incompatibilities

X Warning! Unable to verify Microsoft Windows 11 compatibility for the AMD Threadripper 3990X 2.8 GHz 64-Core Processor. Please confirm compatibility with Microsoft.

N Note: Some physical dimension restrictions cannot (yet) be automatically checked, such as cpu cooler / RAM clearance with modules using tall heat spreaders.

[Flag Issues/Incompatibilities as incorrect]

Part List Price History

Corsair H100i RGB PLATINUM 75 CFM Liquid CPU Cooler

Corsair Dominator Platinum 128 GB (8 x 16 GB) DDR4-3200 CL16 Memory

NVIDIA Quadro GV100 32 GB Video Card

Corsair AX 1000 W 80+ Titanium Certified Fully Modular ATX Power Supply

Microsoft Windows 11 Pro OEM 64-bit

EVGA NU 24-bit 192 kHz Sound Card

Corsair SP120 High Performance 62.74 CFM 120 mm Fan

Team QX 15.3 TB 2.5" Solid State Drive

Asus ROG ZENITH II EXTREME ALPHA EATX ATX EATX Motherboard

AMD Threadripper 3990X 2.8 GHz 64-Core Processor

ARCTIC MX-5 Incl. Spatula 20 g Thermal Paste

Phanteks Eclipse P400S ATX Mid Tower Case

StarTech ST1000SPEX42 PCIe x4 1 Gb/s Network Adapter

Intel 6220SAHMMWDTX1 PCIe x1 802.11a/b/g/n Wi-Fi Adapter

Dell UP3216Q 31.5" 3840x2160 60 Hz Monitor

Logitech MX 5500 Revolution Wireless Standard Keyboard With Laser Mouse

Logitech G500s Laser Gaming Mouse Wired Laser Mouse

Logitech THX Z-3300s 280 W 5.1 Channel Speakers

4

3. Pasos para armar la computadora

una computadora (Linus Tech Tips, 2021).

Para esta parte usé un video de referencia para seguir los pasos de como armar

Referencias

- Linus Tech Tips. (2021). *I'm Bored. Build a Gaming PC with me!!* <https://youtu.be/FwwgBB8l2vs>
- Pc Part Picker. (2022a). *System Build*. <https://pcpartpicker.com/list/f3bHhk>
- Pc Part Picker. (2022b). *System Build*. <https://pcpartpicker.com/list/L2Wvnt>
- windows-driver-content, akovarms, v-kents, mhopkins-msft & themar-msft. (2021). *Windows 11 supported AMD processors*. <https://docs.microsoft.com/en-us/windows-hardware/design/minimum/supported/windows-11-supported-amd-processors>